

# NPDES Requirements

## MPE Website



### Multi-Sensor Precipitation Estimates (MPE)



# National Pollutant Discharge Elimination System

- EPA's NPDES program controls the discharges of pollutants from point sources including stormwater from construction sites
- NC's Division of Water Quality (DWQ) administers our state's NPDES program
- DOT has an individual permit to discharge stormwater from roadway drainage systems, construction activities, borrow pits, and industrial sites; NCG250.
- DOT's stormwater discharges from construction activities are additionally governed by applicable requirements in NCG01

# National Pollutant Discharge Elimination System

- 2006 NCG01 was enacted
- 2007 DOT initiated NPDES reporting for construction sites
- 2008 DWQ issued guidance on compliance with NCG01 and DOT & DWQ began discussions to refine applicable requirements
- 2009 DOT & DWQ begin training to ensure NPDES compliance on construction activities

# Definitions



- Stormwater Discharge Outfall (SDO)
  - Defined as a point of stormwater discharge to waters of the State (streams, wetlands, open water). An outfall is not restricted to pipes and includes any type of outlet or any discharge from a BMP that discharges to waters of the State.

# Definitions

- 303(d) listed stream
  - Streams listed on the 303(d) impaired waters list are required to be inspected twice a week. This requirement applies only to streams listed for pollutants associated with construction activities such as turbidity, sediment, or biological integrity. Unnamed tributaries draining to the impaired stream reach are assumed to carry the 303(d) listing as well.

Link to the construction list of impaired streams.

<http://h2o.enr.state.nc.us/su/construction303d/>



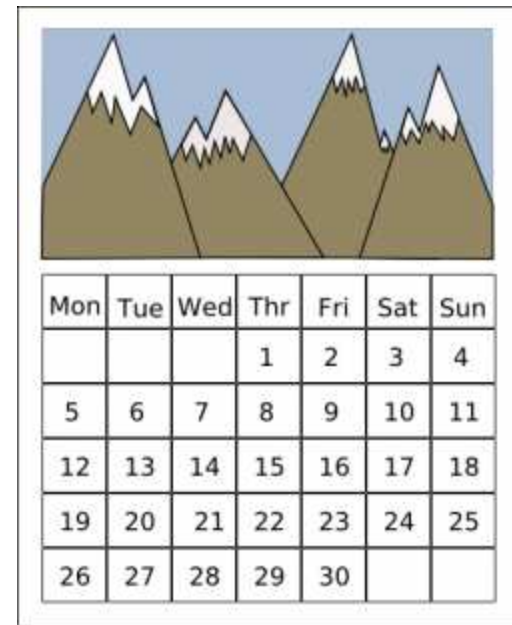
# Monitoring

- All projects with 1 acre or greater of exposed erodible area must follow the NPDES requirements
- Waste/borrow sites not associated with a project that are 1 acre or greater of exposed erodible area must follow the NPDES requirements



# Monitoring

- All SDO's shall be inspected once every seven calendar days
- Twice every seven calendar days for 303(d) listed streams
- Within 24 hrs. after a 0.5" rainfall per 24 hr. period



08/2009 SPPPEORM30

STORMWATER INSPECTIONS FOR GENERAL PERMIT NCG010000 – LAND DISTURBING ACTIVITIES  
SELF-INSPECTION REPORT FOR LAND DISTURBING ACTIVITY AS REQUIRED BY § 113A-54.1



PROJECT LOCATION \_\_\_\_\_ TIP# \_\_\_\_\_ COUNTY \_\_\_\_\_  
LEVEL II SUPERVISOR \_\_\_\_\_ CONTRACTOR \_\_\_\_\_

All erosion and sedimentation control facilities and stormwater discharge outfalls must be inspected at least once (twice, if on 303(d) listed stream impaired by construction related parameters see <http://h2o.enr.state.nc.us/sw/construction303d>) per seven calendar days and within 24 hours of a rainfall of 0.5 inches per 24 hours. Permittee must keep a record of inspections. Attach Multi Precipitation Estimator (MPE) rainfall data for weekly period. If using on site rain gage, complete daily rainfall measurement.

Day	Date	Rain Amt (in)	Phase of Grading (Place an "x" in the box of the current project phase)	
M			Installation of perimeter erosion and sediment control measures	
T			Clearing and grubbing of existing ground cover	
W			Completion of any phase of grading of slopes or fills	
Th			Installation of storm drainage facilities	
F			Completion of construction or development	
S			Establishment of permanent ground cover sufficient to restrain erosion.	
Su				

By this signature, I certify (in accordance with Part II Section B, 10 of the NCG010000 permit) that this report is accurate and complete to the best of my knowledge:

	Cert. #
	Cert. #

EROSION AND SEDIMENTATION CONTROL MEASURES INSPECTED:	Rate Discharge Quality if measure is also a Storm Discharge Outfall (SDO)
	Corrective action is needed if ratings for Discharge Quality are 4 or above.

[illegible]



# Phase of Grading

- Place a check in the box of the current project phase.
- Project may be in more than one phase

Phase of Grading (Place a check in the box of the current project phase)	
Installation of perimeter erosion and sediment control measures	<input checked="" type="checkbox"/>
Clearing and grubbing of existing ground cover	<input type="checkbox"/>
Completion of any phase of grading of slopes or fills	<input checked="" type="checkbox"/>
Installation of storm drainage facilities	<input type="checkbox"/>
Completion of construction or development	<input type="checkbox"/>
Establishment of permanent ground cover sufficient to restrain erosion.	<input type="checkbox"/>

# NPDES Inspection Form

- Fill out Inspection Date & Station Number
- Record corrective actions needed

[illegible]

# NPDES Inspection Form

- Priority of corrective actions
  - Record an R for Routine – Attention needed within 5 days
  - Record a U for Urgent – Attention needed within 24 hrs.

[illegible]

# NPDES Inspection Form

- Is there sediment damage? Yes or No

[illegible]

# NPDES Inspection Form

- If there is sediment damage, record station number and actions taken to restore damage.
  - Engineer will contact DWQ/DLR within 24 hrs. if damage occurs. Also notify REU Field Ops

08/2009

[illegible]

# NPDES Inspection Form

- Record date when each corrective action is complete

Insp. Date	Station Number	Needed Corrective Actions	Priority *	Date Corrected	Sediment Damage Y/N +	Discharge Quality					
						SDO Y/N	Clarity **	Floating Solids: ***	Suspended Solids: ***	Oil Sheen Y/N/-	Other Pollutants:
* R=Routine, needs attention within 5 days; U=Urgent, needs attention within 24 hrs.		** 1=Clear, 2=Slightly Cloudy, 3=Cloudy, 4=Very Cloudy 5=Extremely Cloudy	*** 1=None, 2=Slight, 3=Mild, 4=Moderate, 5=Extreme			+ List actions taken to restore sedimentation damage Contact DWQ/DLR within 24 hrs. if damage occurs.					



# SDO

- Is outlet an SDO?? If yes, discharge quality ratings must be monitored.

[illegible]

# SDO Discharge Quality Monitoring

- Visually inspect SDO's and give a rating of 1-5 for each category
- Only SDO's will be given a rating
- If no discharge at time of inspection, no rating will be given.
  - Place a dash to indicate no discharge

Discharge Quality					
SDO Y/N	Clarity **	Floating Solids ***	Suspended Solids ***	Oil Sheen Y/N/—	Other Pollutants

* R=Routine, needs attention within 5 days; U=Urgent, needs attention within 24 hrs.	** 1=Clear, 2=Slightly Cloudy, 3=Cloudy, 4=Very Cloudy 5=Extremely Cloudy	*** 1=None, 2=Slight, 3=Mild, 4=Moderate, 5=Extreme	+ List actions taken to restore sedimentation damage on Page 4 Contact DWQ/DLR within 24 hrs. if damage occurs.
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# SDO Discharge Quality Monitoring

- Visual inspection is made at discharge point of BMP but before discharge enters waters of the state.
- Corrective action is needed if rating for Discharge is 4 or above.
  - Record in the Needed Corrective Action column with the corresponding SDO and station number
- Note if discharge quality is affected by offsite source

# SDO Discharge Quality Monitoring

- Guidance for Rating Stormwater Discharge

[http://h2o.enr.state.nc.us/su/documents/SWU-242AQualitative\\_Monitoring\\_Guide2008.pdf](http://h2o.enr.state.nc.us/su/documents/SWU-242AQualitative_Monitoring_Guide2008.pdf)

# Clarity

- Refers to the cloudiness of the stormwater discharge.
  - Rating - 1 is clear and 5 is extremely cloudy



1



3



5

# Clarity

- Record rating for clarity with the corresponding SDO station number

[illegible]



# Floating Solids

- Any solids, foams, or debris observed floating on the surface of the stormwater discharge.
- Rating - 1 is no solids and 5 is extreme



1



3



5

# Floating Solids

- Do not have to record rating for leaf debris
- Give rating if straw/hydro mulches are present and floating.

# Floating Solids

- Record rating for floating solids with the corresponding SDO station number

[illegible]

# Suspended Solids

- Suspended sediment or other particles in the discharge. This also includes sediment that was once suspended and has been deposited outside the limits of the work site.
- Rating - 1 is none and 5 is extreme



1



3



5

# Suspended Solids

- Record rating for suspended solids with the corresponding SDO station number.

[illegible]

# Oil Sheen

- Refers to the shiny or colored luster that results from petrochemicals in the discharge.
- Is oil sheen present?
  - The sheen layer will break apart and stay apart if it is organic.
  - If the sheen is a pollutant, the sheen will break apart and then flow back together.
- Other Obvious Indicators of Stormwater Pollution – This could be anything not listed above such as de-icing material, industrial pollutants, etc.

[illegible]



# Form 1675

## Response for Erosion Control

[illegible]

# Signatures

- A certified Level II Supervisor and certified Level II NCDOT representative must sign and provide certification number.

By this signature, I certify (in accordance with Part II Section B, 10 of the NCG010000 permit) that this report is accurate and complete to the best of my knowledge:	
Cert. Level II Supervisor	Cert. #
NCDOT Cert. Level II Representative	Cert. #

## Get More MPE Data for Site 1

**Date Range:** 2009-07-05 thru 2009-07-11

**Site:** Site 1

**Latitude:** 35.910395 **Longitude:** -78.42598

**Alert Threshold**  $\geq 0.5$  within 24 hours

**Project:** SR 1000

**Other Associated Sites:**

[Site 2](#)

[Site 1](#)

### Weekly Rainfall Log

Observation Date & Time (EST)	Precipitation (inches)
2009-07-05 07:00:00	0
2009-07-06 07:00:00	0.709
2009-07-07 07:00:00	0
2009-07-08 07:00:00	0
2009-07-09 07:00:00	0
2009-07-10 07:00:00	0
2009-07-11 07:00:00	0
<b>TOTAL:</b>	0.709

# Rainfall Data

- Use MPE Website to print out weekly rainfall totals.

Inspection would be required within 24 hours


If a 0.5" or greater rain event falls on Saturday or Sunday, an inspection must be made on the next business day.

# Onsite Rain Gauge

- On site rain gauge is required if MPE website is not utilized.
- Record weekly rainfall on NPDES form

Day	Date	Rain Amt (in)
M	8/3	0.4
T	8/4	0.5
W	8/5	0.0
Th	8/6	1.0
F	8/7	0.0
S	8/8	0.0
Su	8/9	0.0

<p>STORMWATER SELF-INSPECTION REPORT</p> <p>PROJECT LOCATION _____</p> <p>LEVEL II SUPERVISOR _____</p> <p>All erosion and sedimentation control construction related parameters see NPDES permit. Permittee must keep a record of inspection rainfall measurement.</p>		<p>NCG010000 – LAND DISTURBING ACTIVITIES ACTIVITY AS REQUIRED BY § 113A-54.1</p> <p>COUNTY _____</p> <p>Inspected at least once (twice, if on 303(d) listed stream impaired by _____) calendar days and within 24 hours of a rainfall of 0.5 inches per 24 hours. If using on site rain gage, complete daily rainfall data for weekly period.</p>	
<p>Installation _____</p> <p>Clearing and Grading _____</p> <p>Completion _____</p> <p>Installation _____</p> <p>Completion _____</p> <p>Establishment _____</p>	<p>By this signature, I certify (in accordance with Part II Section B, 10 of the NCG010000 permit) that this report is accurate and complete to the best of my knowledge:</p>	<p>Cert. Level II Supervisor _____ Cert. # _____</p> <p>NCDOT Cert. Level II Representative _____ Cert. # _____</p>	

# Rain Gauge or MPE

- May use either option
- Must use one or the other but not both to record rainfall data.

# Additional Monitoring

- Idle projects
  - Projects that have not been completed but where no construction activity occurs for 21 calendar days or more and have been adequately stabilized with temporary vegetation.





# Monitoring Idle Projects

- SDO's may be inspected once every 14 calendar days.
- Once every seven calendar days for 303(d) listed streams.
- Inspections still required within 24 hrs after a 0.5" rainfall per 24 hr period.

# Example

09/2009 SPPPEORM30

## STORMWATER INSPECTIONS FOR GENERAL PERMIT NCG010000 - LAND DISTURBING ACTIVITIES SELF-INSPECTION REPORT FOR LAND DISTURBING ACTIVITY AS REQUIRED BY § 113A-54.1



PROJECT LOCATION NC 00 from SR 1000 to SR 1001 TIP# R-0000 COUNTY Wake  
LEVEL II SUPERVISOR John Doe CONTRACTOR XYZ Contracting

All erosion and sedimentation control facilities and stormwater discharge outfalls must be inspected at least once (twice, if on 303(d) listed stream impaired by construction related parameters see <http://h2o.enr.state.nc.us/sw/construction303d>) per seven calendar days and within 24 hours of a rainfall of 0.5 inches per 24 hours. Permittee must keep a record of inspections. Attach Multi Precipitation Estimator (MPE) rainfall data for weekly period. If using on site rain gage, complete daily rainfall measurement.

Day	Date	Rain Amt (in)	Phase of Grading (Place a check in the box of the current project phase)
M	8/3	0.4	Installation of perimeter erosion and sediment control measures <input checked="" type="checkbox"/>
T	8/4	0.5	Clearing and grubbing of existing ground cover <input type="checkbox"/>
W	8/5	0.0	Completion of any phase of grading of slopes or fills <input checked="" type="checkbox"/>
Th	8/6	1.0	Installation of storm drainage facilities <input type="checkbox"/>
F	8/7	0.0	Completion of construction or development <input type="checkbox"/>
S	8/8	0.0	Establishment of permanent ground cover sufficient to restrain erosion. <input type="checkbox"/>
Su	8/9	0.0	

By this signature, I certify (in accordance with Part II Section B, 10 of the NCG010000 permit) that this report is accurate and complete to the best of my knowledge:

John Doe 100  
Cert. Level II Supervisor Cert. #  
John Doe Jr. 101  
NCDOT Cert. Level II Representative Cert. #

EROSION AND SEDIMENTATION CONTROL MEASURES INSPECTED: Rate Discharge Quality if measure is also a Storm Discharge Outfall (SDO)  
Corrective action is needed if ratings for Discharge Quality are 4 or above.

Inspection Date	Station Number	Needed Corrective Actions	Priority *	Date Corrected	Sediment Damage Y/N +	Discharge Quality					
						SDO Y/N	Clarity **	Floating Solids ***	Suspended Solids ***	Oil Sheen Y/N/-	Other Pollutants
8/3	1+00	No corrective actions noted			N	Y	--	--	--	--	--
"	2+00	Cleanout silt in basin	R	8/4	N	Y	--	--	--	--	--
"	3+00	Baffles needed in skimmer	U	8/4	N	Y	--	--	--	--	--
"	4+00	Install TRSC-A	R	8/4	N	N					
"	5+00-8+00	Seed/ mulch slopes	R	8/4	N	N					
8/5	1+00	Repair wash at weir	R	8/5	Y	Y	2	1	2	N	--
"	2+00	No corrective actions noted			N	Y	1	1	1	N	--
"	3+00	Remove debris from skimmer	R	8/5	N	Y	1	1	1	Y	--
"		Hyd. fluid from equip leak-fluid disposed properly									
"	4+00-5+00	Install perimeter measures	U	8/5	N	N					
"	6+00	Repair damaged silt fence	R	8/7	N	N					
8/7	1+00	Temporary Seeded/mulched;	U	8/7	N	Y	5	2	4	N	--
		PAM applied to measures up grade									

\* R=Routine, needs attention within 5 days;  
U=Urgent, needs attention within 24 hrs.

\*\* 1=Clear, 2=Slightly Cloudy,  
3=Cloudy, 4=Very Cloudy  
5=Extremely Cloudy

\*\*\* 1=None, 2=Slight, 3=Mild,  
4=Moderate, 5=Extreme

+ List actions taken to restore sedimentation damage Contact DWQ/DLR within 24 hrs. if damage occurs.

09/2009 SPPFORM30

[illegible]

08/2009

[illegible]

08/2009

RESPONSE FOR EROSION CONTROL - INSPECTOR'S DAILY REPORT  
SUBSTITUTE FORM 1675

[illegible]

# Questions



## Multi-Sensor Precipitation Estimates (MPE)



# MPE Website

## Getting Started

- <http://www.nc-climate.ncsu.edu/dot/>
- Request an account.
  - Fill out information and submit.
  - You will receive an email confirming registration and password.





## Multi-Sensor Precipitation Estimates (MPE)



MPE home | Map | My Projects | My Alerts | More MPE Data | User Acct | Status | NC CRONOS | State Climate Office | Contact

Precipitation Map

Add Projects



Project Precip. Alerts

Welcome, Ben DeWit. Use the links above or below to navigate this website.

[View a tutorial](#) on the usage of this website.

The precipitation estimates provided herein are derived from the NWS WSR-88D Doppler Radar. Radar precipitation estimates can be grossly inaccurate, so radar-based precipitation values are calibrated with the routinely available hourly surface gages. The combined product provides the spatial resolution of radar with the increased accuracy of surface gage networks. These gage-calibrated radar estimates are known as Multi-sensor Precipitation Estimates, or MPE.



## Multi-Sensor Precipitation Estimates (MPE)



MPE home | Map | **My Projects** | My Alerts | More MPE Data | User Acct | Status | NC CRONOS | State Climate Office | Contact

### Multi-Precipitation Estimates for DOT Projects

**!** This data is *not* available in real-time. The sums shown below are ending at the time indicated. Sums are updated when the 6-hour mpe files have been processed, which is within a few hours after 1am, 7am, 1pm and 7pm EST. See the [status](#) page for the latest available times.  
Page loaded on Jun 29, 2009 at 2:32pm.

**!** There are possible errors associated with these radar-based precipitation estimates. Regional seasonally averaged RMSE for 24-hour totals range from 0.019 inches in the winter to 0.028 inches in the summer. The annual regional average RMSE is 0.023 inches over a 24-hour period. Details on the evaluation of MPE are [available](#).

Showing all 2 projects that Ben DeWit is subscribed to receive alerts from.  
[Show all projects](#)

 [Add Project](#) or [Subscribe to an Existing Project](#)

1. Click My Projects
2. Click Add Project



## Multi-Sensor Precipitation Estimates (MPE)



[MPE home](#) [Map](#) [My Projects](#) [My Alerts](#) [More MPE Data](#) [User Acct](#) [Status](#) [NC CRONOS](#) [State Climate Office](#) [Contact](#)

### Add Project

This creates a project name and placeholder for sites. After it is created, you'll be able to add site latitudes/longitudes.

Project Name:

3. Enter Project Name and click submit





## Multi-Sensor Precipitation Estimates (MPE)



[MPE home](#) [Map](#) [My Projects](#) [My Alerts](#) [More MPE Data](#) [User Acct](#) [Status](#) [NC CRONOS](#) [State Climate Office](#) [Contact](#)

Click "Map" to select monitoring locations

Select layers you want visible on the map

Zoom to project location

### Select Layers:

#### MPE:

- ☒ Precip estimate
- ☐ My Project Sites

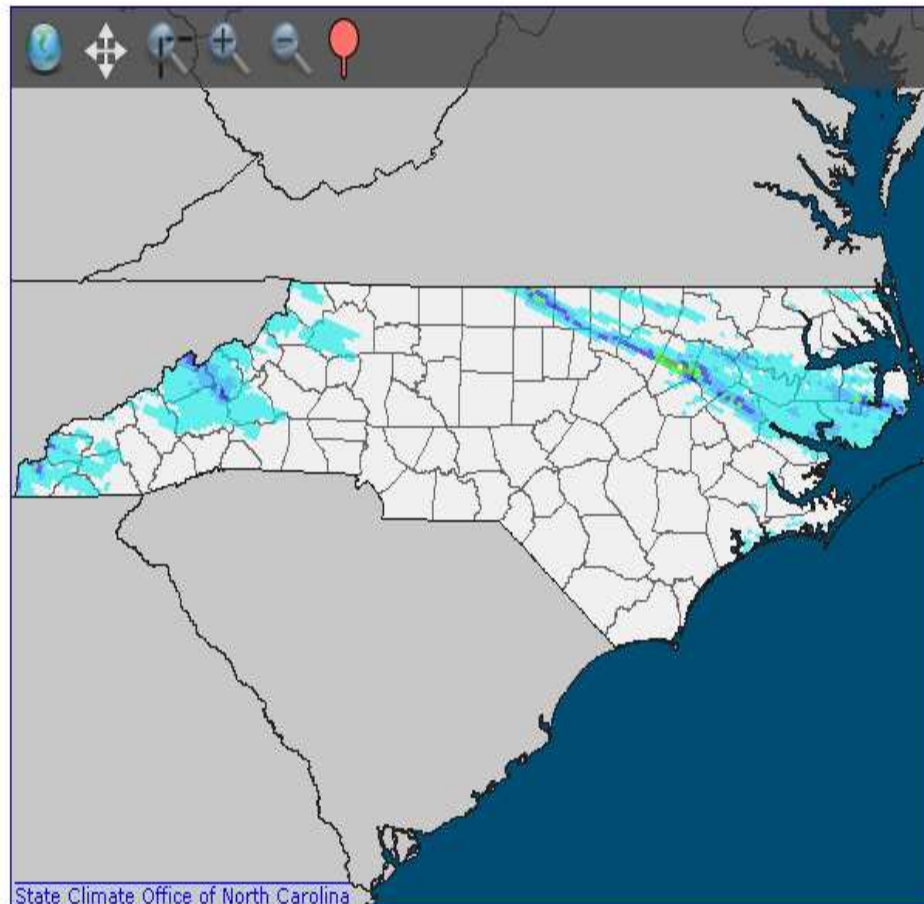
#### Geographic:

- ☒ County lines
- ☒ Cities
- ☐ Rivers and Streams
- ☐ Shaded relief

#### Transportation:

- ☒ Interstates
- ☒ Primary Roads
- ☐ Secondary Roads

#### Special Layers:



### Time Period:

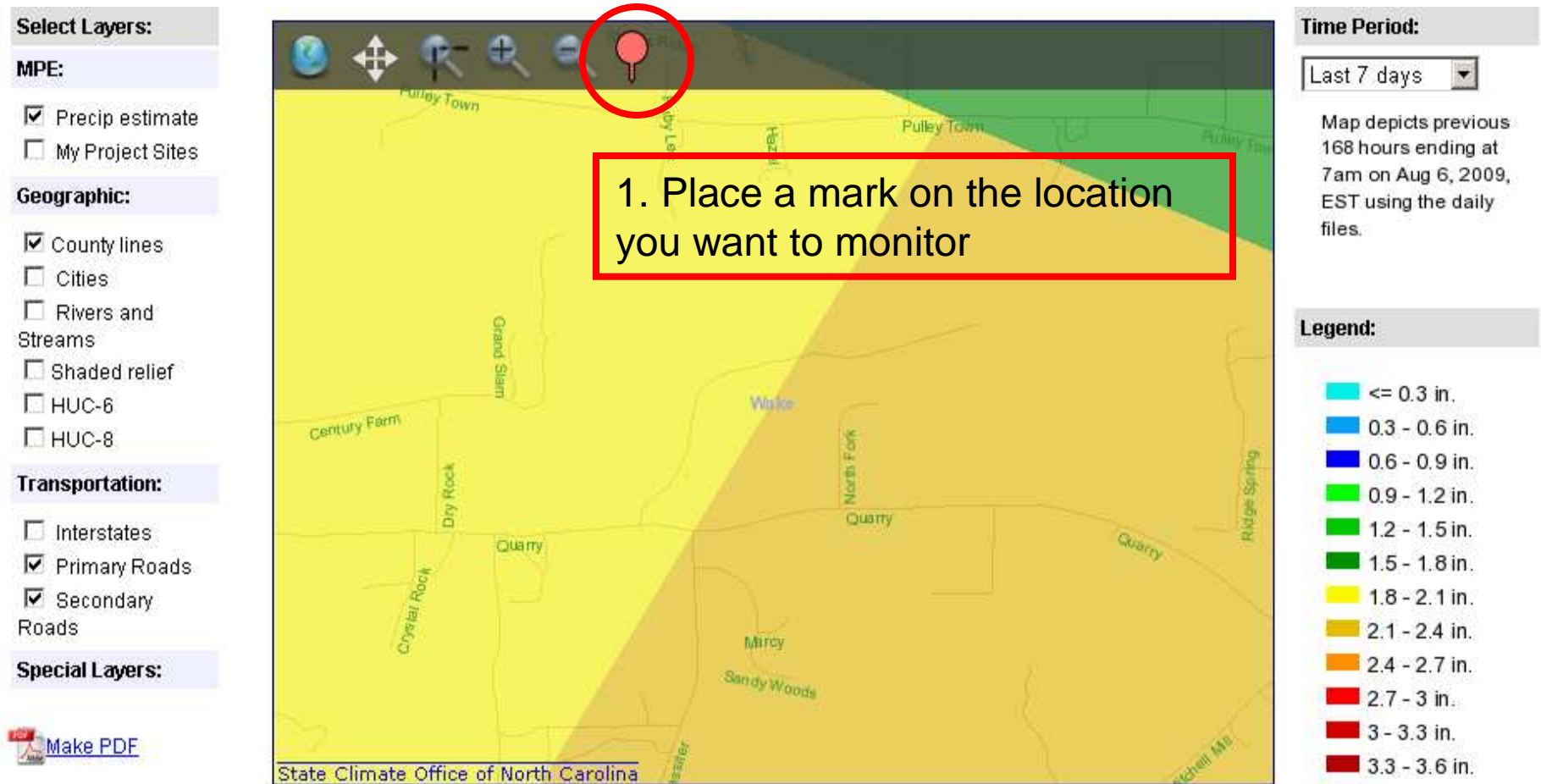
Last 24 hours

Map depicts previous 24 hours ending at 7am on Jun 29, 2009, EST using the 6-hour files.

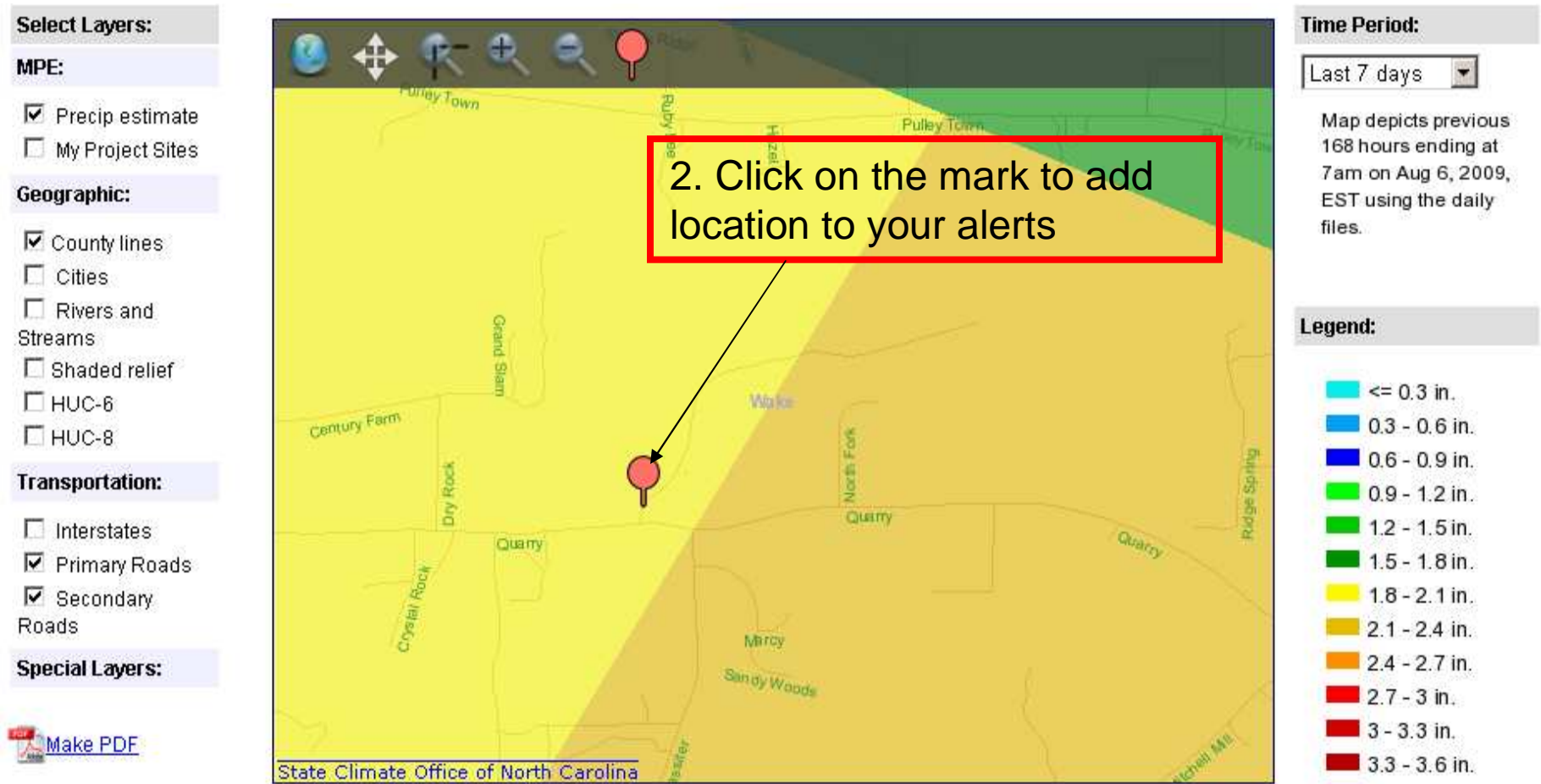
### Legend:

- <= 0.1 in.
- 0.1 - 0.2 in.
- 0.2 - 0.3 in.
- 0.3 - 0.4 in.
- 0.4 - 0.5 in.
- 0.5 - 0.6 in.
- 0.6 - 0.7 in.
- 0.7 - 0.8 in.
- 0.8 - 0.9 in.
- 0.9 - 1 in.
- 1 - 1.1 in.
- 1.1 - 1.2 in.
- 1.2 - 1.3 in.
- > 1.3 in.
- County Lines

# Adding locations using the map



# Adding locations using the map



# Adding locations using the map

**Select Layers:**

**MPE:**

- ☒ Precip estimate
- ☐ My Project Sites

**Geographic:**

- ☒ County lines
- ☐ Cities
- ☐ Rivers and Streams
- ☐ Shaded relief
- ☐ HUC-6
- ☐ HUC-8

**Transportation:**

- ☐ Interstates
- ☒ Primary Roads
- ☒ Secondary Roads

**Special Layers:**

[Make PDF](#)

**Time Period:**

Last 24 hours

Map depicts previous 24 hours ending at 7am on Aug 6, 2009, EST using the 6-hour files.

**Legend:**

- <= 0.1 in.
- 0.1 - 0.2 in.
- 0.2 - 0.3 in.
- 0.3 - 0.4 in.
- 0.4 - 0.5 in.
- 0.5 - 0.6 in.
- 0.6 - 0.7 in.
- 0.7 - 0.8 in.
- 0.8 - 0.9 in.
- 0.9 - 1 in.
- 1 - 1.1 in.
- 1.1 - 1.2 in.

**New Site**

Long: -78.425929°

Lat: 35.910974°

[Add location to my alerts](#)

[Get MPE data](#)

**3. Click Add Location to my alerts**

State Climate Office of North Carolina





## Multi-Sensor Precipitation Estimates (MPE)



- MPE home
- Map
- My Projects
- My Alerts
- More MPE Data
- User Acct
- Status
- NC CROMOS
- State Climate Office
- Contact

### Add a Site to a Project

You may use [the map](#) or [TopoZone.com](#) to help determine your specific latitude/longitude.

Select the project for this site:

SR 1000 or [create a new project](#)

Site Name:

Site Latitude:

degrees

Site Longitude:

degrees

Alert Threshold:

>= 0.5 inches within 24 hours

Alert Status:

☒ On  
☐ Off

4. Select the Project

5. Enter site specific name within the project

6. User can find project by entering Lat/Long or by using the map

7. Set email alert threshold to 0.5 inches within 24 hrs for NPDES inspections.

Submit and go to My Projects

Submit and add another





## Multi-Sensor Precipitation Estimates (MPE)



[MPE home](#) | [Map](#) | [My Projects](#) | [My Alerts](#) | [More MPE Data](#) | [User Acct](#) | [Status](#) | [NC CRONOS](#) | [State Climate Office](#) | [Contact](#)

### Multi-Precipitation Estimates for DOT Projects

! This data is *not* available in real-time. The sums shown below are ending at the time indicated. Sums are updated when the 6-hour mpe files have been processed, which is within a few hours after 1am, 7am, 1pm and 7pm EST. See the [status](#) page for the latest available times.  
Page loaded on Jul 23, 2009 at 12:53pm.

! There are possible errors associated with these radar-based precipitation estimates. Regional seasonally averaged RMSE for 24-hour totals range from 0.019 inches in the winter to 0.028 inches in the summer. The annual regional average RMSE is 0.023 inches over a 24-hour period. Details on the evaluation of MPE are [available](#).

Showing all 3 projects that Ben DeWit is subscribed to receive alerts from.  
[Show all projects](#)

[Add Project](#) or [Subscribe to an Existing Project](#)

Users have ability to enter multiple locations for one project.

#### SR 1000

Created by [Ben DeWit](#) on Jul 23, 2009

1 people subscribed

[unsubscribe from alerts](#)  
[delete](#) [add site](#) [edit](#)

Site 1

Site 2

Lat, Lon	Last Alert:	Alert Switch	Alert Threshold:	Precipitation (in.)				Sums ending at (EST)	More Data
				in. / hours	6	12	24	48	
35.910395 -78.42598	never	on	0.5 / 24	0	0	0	0	0	Jul 23, 7am <a href="#">[past]</a> <a href="#">[forecast]</a>
35.917306 -78.41459	never	on	0.5 / 24	0	0	0	0	0	Jul 23, 7am <a href="#">[past]</a> <a href="#">[forecast]</a>

## SR 1000

Created by [Ben DeWitt](#) on Jul 23, 2009 1 people subscribed

[unsubscribe from alerts](#)  
[\[delete\]](#) [\[add site\]](#) [\[edit\]](#)

<a href="#">unsubscribe from alerts</a> <a href="#">[delete]</a> <a href="#">[add site]</a> <a href="#">[edit]</a>	Lat, Lon	Last Alert:	Alert Switch	Alert Threshold:	Precipitation (in.)				Sums ending at	More Data
				in. / hours	6	12	24	48	(EST)	
Site 1	35.910395 -78.42598	never	on	0.5 / 24	0	0	0	0	Jul 23, 7am	<a href="#">[past]</a> <a href="#">[forecast]</a>
Site 2	35.917306 -78.41459	never	on	0.5 / 24	0	0	0	0	Jul 23, 7am	<a href="#">[past]</a> <a href="#">[forecast]</a>



## Multi-Sensor Precipitation Estimates (MPE)



[MPE home](#) [Map](#) [My Projects](#) [My Alerts](#) [More MPE Data](#) [User Acct](#) [Status](#) [NC CRONOS](#) [State Climate Office](#) [Contact](#)

### Get More MPE Data for I-540 Wake

Start Date:

End Date:

Location:  
\*\* You can also use the [map](#) to get data from a point.  
Latitude: 35.77082  
Longitude: -78.506

Period:

1. Click on "past" to obtain rainfall data

2. Select a start and end date and the period for the rainfall data

## Get More MPE Data for Site 1

**Date Range:** 2009-07-05 thru 2009-07-11

**Site:** Site 1

**Latitude:** 35.910395 **Longitude:** -78.42598

**Alert Threshold**  $\geq 0.5$  within 24 hours

**Project:** SR 1000

**Other Associated Sites:**

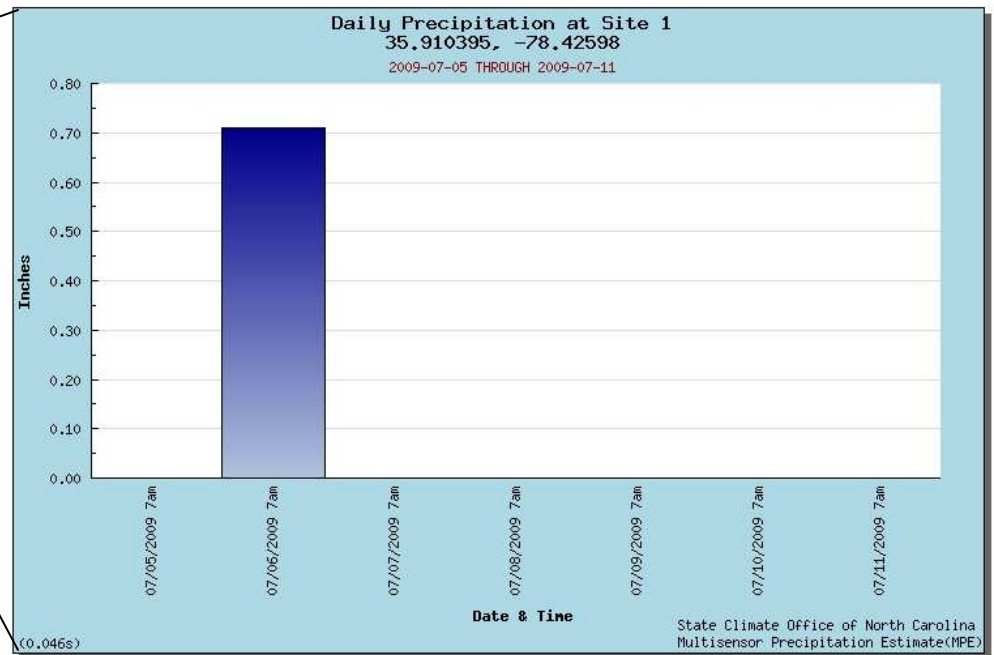
[Site 2](#)

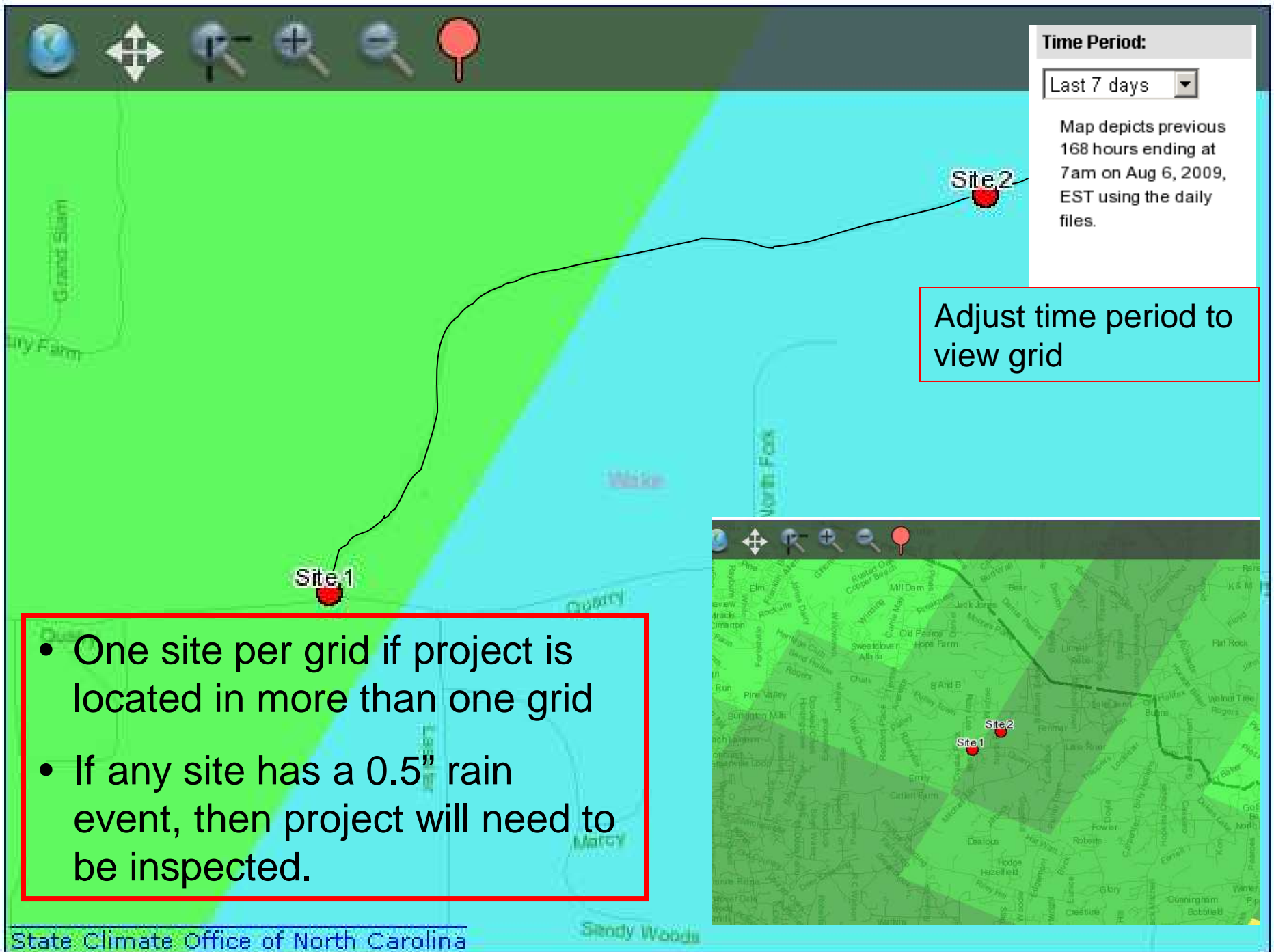
[Site 1](#)

Rainfall Data for the selected date range and period.

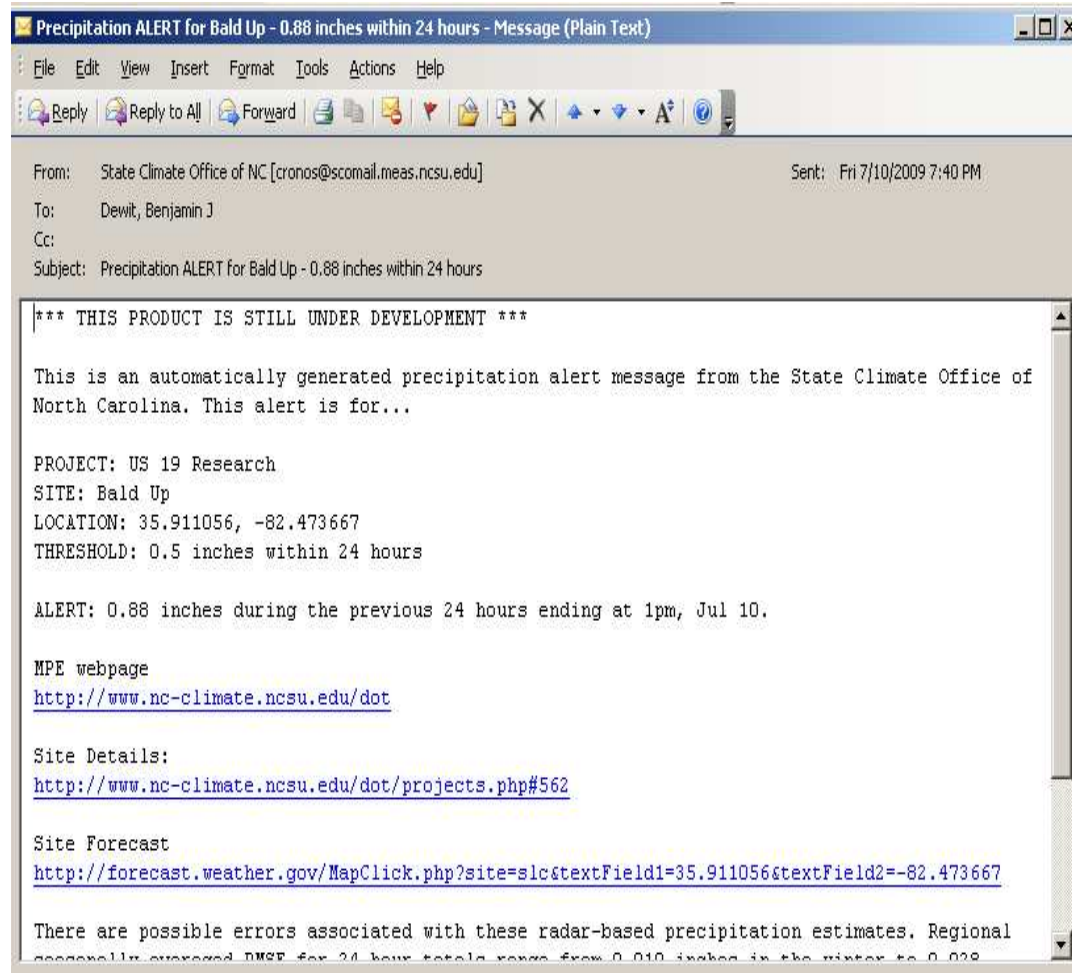
Click the Graph Icon to display graph of rainfall data

Observation Date & Time (EST)	Precipitation (inches)
2009-07-05 07:00:00	0
2009-07-06 07:00:00	0.709
2009-07-07 07:00:00	0
2009-07-08 07:00:00	0
2009-07-09 07:00:00	0
2009-07-10 07:00:00	0
2009-07-11 07:00:00	0
<b>TOTAL:</b>	0.709





# Email Alert



- Receive email alerts for 0.5" rainfall within 24 hrs.
- Alerts user to make inspection





## Multi-Sensor Precipitation Estimates (MPE)



[MPE home](#) [Map](#) [My Projects](#) [My Alerts](#) [More MPE Data](#) [User Acct](#) [Status](#) [NC CRONOS](#) [State Climate Office](#) [Contact](#)

### Precipitation Alerts - Change Alert Subscriptions for Ben DeWit

Listed below are all projects. If you are currently subscribed to receive e-mail alerts from a project, the column to the left will be selected. If you do not currently receive alerts for a particular project, the column to the right will be selected. Change these selections as you wish and press the submit button to make them effective immediately.

E-mail alerts are generated four times daily when the latest 6-hour MPE file is processed. 6-hour files end at 1am, 7am, 1pm, and 7pm EST. Alerts are generated within a few hours after each time period ends.

User may subscribe to other users projects by clicking "My Alerts"

Subscribe	PROJECT NAME	Unsubscribe
<input type="radio"/>	24/27 R-0967 CC <a href="#">[details]</a>	<input checked="" type="radio"/>
<input type="radio"/>	37740 <a href="#">[details]</a>	<input checked="" type="radio"/>
<input type="radio"/>	37748 <a href="#">[details]</a>	<input checked="" type="radio"/>
<input type="radio"/>	601 Widening Monroe to Pageland <a href="#">[details]</a>	<input checked="" type="radio"/>
<input type="radio"/>	6C.078088 SR 2432 Roberta Road <a href="#">[details]</a>	<input checked="" type="radio"/>
<input type="radio"/>	acc <a href="#">[details]</a>	<input checked="" type="radio"/>
<input type="radio"/>	Airports <a href="#">[details]</a>	<input checked="" type="radio"/>
<input type="radio"/>	...	<input checked="" type="radio"/>

# Questions



## Multi-Sensor Precipitation Estimates (MPE)

